Command Reference Command Reference

Command Reference

Instead of using function codes, you can issue direct commands from any screen in the PAC system to bypass menus and access the particular screens directly.

Direct commands are either Natural (N) commands or commands that are specific to PAC (P). The ADMIN and MENU commands are both Natural and PAC commands.

This chapter covers the following topics:

- SYSPAC Commands N
- Other SYSPAC Commands
- Commands to Set SYSPAC Options P
- Natural Program Editor Commands

SYSPAC Commands - N

The direct commands in this section are used to execute SYSPAC functions. These commands may be issued either when SYSPAC is invoked or from a menu screen.

Direct commands are issued in either interactive or batch mode.

To issue commands in interactive mode

• from any library, enter SYSPAC followed by a direct command string.

After the direct command is issued, you are usually returned to the library from which you issued the command.

Or:

from library SYSPAC, enter MENU followed by a direct command string.

Or

from a SYSPAC menu screen, enter a direct command string.

To issue commands in batch mode

• from any library, enter SYSPAC followed by a direct command string.

Or:

from library SYSPAC, enter MENU followed by a direct command string.

Note:

All direct commands entered in batch must be entered in delimiter mode when a startup of MENU is specified for the applications SYSPAC and SYSPAA.

This section covers the following topics:

- Command Syntax
- Command Processing

Command Syntax Command Reference

- ADD Command
- ADD EVENT Batch Command
- AUTHORIZE EVENT Batch Command
- BACKOUT EVENT Batch Command
- COPY Command
- DISPLAY Command
- DISPLAY OBJECT Command
- DISPLAY OBJECT LAST Command
- GENLIST EVENT Batch Command
- LINK Command
- MODIFY Command
- PURGE Command
- RELEASE EVENT Command
- RENAME Command
- RESET EVENT Command
- SELECT Command
- SUBMIT EVENT Batch Command
- UNDO EVENT Command

Command Syntax

The generalized syntax for SYSPAC direct commands is as follows:

COMMAND ENTITY-TYPE1 entity-name1 [[operator][ENTITY-TYPE2] entity-name2]

The command and entity-type arguments are always entered in capital letters. A space or a delimiter (the default is a comma) separates the arguments. The delimiter must be used for batch commands.

The arguments enclosed in square brackets in the syntax statement are optional for most commands, but when used, their values are restricted by the first set of arguments.

The characters underlined in each command's syntax statement may be used alone to represent the command and entity-type.

Operators

The operator argument is optional, but if the operator is specified, the correct operator for the selected command must be used.

Command Reference Command Processing

Entity Types and Entity Names

Only certain entity-types are valid for a particular command. Valid values for each argument are discussed for each command in the following sections. The entity-name must correspond to the associated entity-type designation.

The possible entity-types for PAC commands are as follows:

- APPLICATION
- EVENT
- JOB
- KEYWORD
- OBJECT
- REQUEST
- STATUS

Note:

Direct commands are not currently available for the entity-type keyword.

The format for the entity-names of each of the entity-types is A32 meaning the name is alphanumeric and can consist of up to 32 characters.

Command Processing

Most direct commands can be issued from the command line of any PAC screen by entering the desired command in accordance with the syntax described in this section.

The command bypasses the PAC menus and takes you directly to the desired function screen. For example, if you wish to display an application status link from the Migration Event Menu, enter the following direct command on the command line:

DISPLAY STATUS development FOR APPLICATION ord-exam

If the entity name is not found, the maintenance menu of the specified entity type (application, event, job, keyword, request, status) is displayed with a message at the bottom of the screen stating that the entity name specified was not found. From this screen, you may request a list of valid entity names by entering one of the following in the relevant entity type field:

- An asterisk (*);
- A range of valid entity names;
- The first one or two characters of an entity name followed immediately by the asterisk notation (for example, "ord*").

Refer to the PAC User's Guide, section Using Range Notation in section Navigating in PAC for more information.

ADD Command

ADD ENTITY-TYPE1 entity-name1 [TO][ENTITY-TYPE2] entity-name2]

ADD EVENT Batch Command Command Command Reference

Valid entity-types for the ADD command include the following:

entity-type1	entity-type2
APPLICATION	STATUS
EVENT	-
JOB	-
KEYWORD	-
REQUEST	-
STATUS	APPLICATION

The following syntax is used to add (link) an application to a status:

```
ADD APPLICATION application-name [TO][STATUS]status-name
```

The following syntax is used to add (link) a status to an application:

```
ADD STATUS status-name [TO][APPLICATION]application-name
```

The remaining valid values for entity-type1 are not used with a TO-clause.

ADD Command Examples

```
ADD APPLICATION ord-exam

ADD APPLICATION ord-exam TO STATUS user-test

ADD APPLICATION ord-exam STATUS user-test

ADD APPLICATION ord-exam user-test

ADD EVENT ord-dc-01

ADD JOB os-export-jcl

ADD KEYWORD project1

ADD REQUEST fix-01

ADD STATUS user-test

ADD STATUS user-test TO APPLICATION ord-exam

ADD STATUS user-test APPLICATION ord-exam

ADD STATUS user-test ord-exam
```

ADD EVENT Batch Command

The command syntax for adding a migration event in batch is as follows:

```
ADD,EVENT, event-name ,[FOR] application-name ,[FROM] origin-status

[TO] destination-status
,SCHEDULED, yy-mm-dd ,[AT] hh:ii:ss
,MREQ, maintenance-request
,ARCEVENT, archive-event-name
,GENTYPE,C||M|P|R|S]
,SET identifiers required for GENTYPE C or S
,WITH clause optional for GENTYPE P
```

Command Reference ADD EVENT Batch Command

```
ADD, EVENT, event-name, [FOR] application-name, [FROM] origin-status, [TO] destination-status
[,SCHEDULED, yy-mm-dd, [AT] hh:ii:ss]
[,MREQ, maintenance-request]
[,ARCEVENT, archive-event-name]
[,GENTYPE, C/I/M/P/R/S]
[SET identifiers required for GENTYPE C or S]
[WITH clause optional for GENTYPE P]
```

The values for the optional keywords are described in the following table:

Keyword	Value
FOR	name of the application
FROM	name of the origin status
TO	name of the destination status
SCHEDULED	date (yy-mm-dd format) and time (hh:ii:ss format) that the application is to become active in production.
REPLACE	replace existing object(s) with the version being migrated.
MREQ	name of the maintenance request associated with the migration event (if applicable).
ARCEVENT	used if you are restoring archived objects to PAC. ARCEVENT is the name of the archive event that initially archived the objects.
GENTYPE	one-character code (C, I, M, P, R, S) for the type of object list to be generated. Refer to the following GENTYPE Option sections for more information. Note: You must specify a GENTYPE option to generate the object list. Otherwise, you must create the object list manually.

GENTYPE C: Predict Case Generate

The object list is generated from a Predict Case set. The SETUID (user ID of the set; up to eight characters) and SETNAME (name of the set; up to 20 characters) are required when GENTYPE C is specified.

```
,SETUID, pcaset-userID
,SETNAME, pcaset-name
```

The set identified must be defined on the application status link with an origin status of maintenance or development; it must be valid for the current NTFILE definition for Predict Case in the Natural NATPARMs.

GENTYPE Option I: Input

The object list is read from instream input with the GENTYPE I option. The following example shows how this facility may be used.

Work file 1 (CMWKF01) is not used; the data read for creating the object list is contained in the primary input file (CMSYNIN).

The format of the input data must be as follows:

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ADD EVENT Batch Command Command Command Reference

```
OBJECT-NAME (A32), OBJECT-TYPE (A4) , VERSION-NUMBER (N4) , STATUS (A32)
```

The data fields must be separated with a comma (,). The end of the list must be designated with a period (.). If the version number is omitted, the most recent version of the object will be included on the object list.

For example, CMSYNIN contains the following commands and data:

```
LOGON SYSPAC
MENU
ADD, EVENT, MAY10-01, FOR, ORDERS, FROM, CONTROL, TO, PRODUCTION, %
GENTYPE, I
ORD-COPY, C, 2
ORD-CUST, N, 1
ORD-GLOB, G, 3
ORD-MAP, M, 3
ORD-MAIN, P, 1
.
FIN
```

The percent sign (%) indicates the end of input for the current line and that the remainder of the command is continued on the next line.

The above example creates a migration event MAY10-01 for the application ORDERS from the status CONTROL to the status PRODUCTION with the resulting object list:

```
ORD-COPY,C,0002
ORD-CUST,N,0001
ORD-END,N,0003
ORD-GLOB,G,0003
ORD-MAP,M,0003
ORD-MAIN,P,0001
```

ADD EVENT Batch Command Example

```
//@USER JOB @ACCOUNT,CLASS=A
//EVENT EXEC PACBATCH
//CMSYNIN DD *
LOGON SYSPAC
MENU
ADD,EVENT,new-event@GEN,FOR,application,%
FROM,development,TO,user-test,%
GENTYPE,I
program1,P
program2,P
program3,P
program4,P
program5,P
```

GENTYPE Option M : Maintenance Request Generate

The object list will be built from a maintenance request. If MREQ is not specified, the object list will be built from the maintenance request associated with the event name. The object list is built from objects previously checked-out of PAC to a maintenance status. PAC selects checked-out objects with the same maintenance request ID, application, and check-out library (of the From/origin status path) as the event.

Command Reference ADD EVENT Batch Command

For a maintenance request with multiple applications: When adding an event in batch, or generating a list from a maintenance request that was used to check out objects for more than one application, you may add one event for each application in use by the maintenance request using the "@GEN" string for the event name and an asterisk (*) for the application name. If a fixed name is used for the application, then an event for only that application is created. If the "@GEN" string is not used in the event name, then an event is created for the first application only.

Note:

This is valid only if origin status is neither of type Incorporation nor of type Archive.

GENTYPE Option P : PAC Generate

The object list will be built based on the objects currently in the origin status compared with objects in the destination status of the various types of events:

• Development, Maintenance or Incorporation

An object is considered in the list only if the object does not exit for the same application. In the case of Development or Maintenance, objects with sources in the original location are taken into consideration. In the case of Incorporation, objects with sources and/or loadables in the original location are taken into consideration.

Restoration

Object list is generated only if an archiving event in the Archive Event field is also specified.

Control

A versioned object will be placed in the list if the object has not already been migrated, overwritten or retired. This is valid for all destination statuses except Archive.

Archive

If the event is one of archiving, the Natural objects in the compartment whose archiving with removal from the compartment (archiving with finalization) is allowed by the application's Retention Parameters (described in subsection Retention Parameters) are put on the list.

Retirement

Objects which were never overwritten or retired from a test, maintenance or production environment will be placed on the list.

• De-Archiving

Object list is generated if an archiving event in the Archive Event field is also specified.

• Retirement from CONTROL

If the event is one of retirement from CONTROL, the objects whose retirements are allowed by the application's Retention Parameters (described in subsection Retention Parameters) are put on the list.

Alignment

Highest numbered Natural object versions are placed on the list.

• False Migration

Objects migrated to the environment defined in the application (origin status link) and have not been overwritten nor retired are placed on the list.

For an origin status of an Archive status type, the Archive event used to archive the objects should be specified.

When you specify P, you may optionally add the following WITH clause to specify selection criteria for the object list:

ADD EVENT Batch Command Command Command Reference

```
WITH ,NAME, object-name ,FMDATE, yy-mm-dd ,FMTIME, hh:ii:ss ,TODATE, yy-mm-dd  
TOTIME, hh:ii:ss  
TYPE, A | L | M | N | P | S...
```

NAME includes only the objects in the specified range.

USER includes only the objects saved by a user in the NAME range.

TYPE is a single character designation for any valid Natural object type except error message.

Dates and times must be entered in the formats given. Only objects compiled since the FM (from) date and time and before the TO date and time will be included in the list.

For dates

- yy is the last two digits of the year (e.g., 97 for 1997), mm is the month (e.g., 02 for February), and dd is the day of the month.
- If left blank, the year default is 00; the month default is 01; and the day default is 01.

For times

- hh is the hour of the day using a 24-hour clock; ii is the minutes of an hour (from 01-60); and ss is the seconds of a minute (01-60).
- If left blank, the hour default is 00; the minute default is 01; and the second default is 01.

GENTYPE Option R: Work File 1

You may use the ADD EVENT command in batch to read object lists from external input. For example, objects placed in a work file (Work File 1) may become the object list. The following example shows how this facility may be used.

Work File 1 (label CMWKF01) is required and contains the data from which the object list will be generated.

The format of the data of Work File 1 (CMWKF01) must be as follows:

```
OBJECT-NAME (A32), OBJECT-TYPE (A4) , VERSION-NUMBER (N4) , STATUS (A32)
```

The data fields must be separated with the specified input delimiter, in this case, the comma (,). If the version number is omitted, the most recent version of the object will be included in the object list. For example:

```
ORD-COPY,C,2
ORD-CUST,N,1
ORD-END,N,3
ORD-GLOB,G,3
ORD-MAP,M,3
ORD-MAIN,P,1
```

The primary input file (label CMSYNIN) contains the following commands:

```
LOGON SYSPAC
MENU
ADD, EVENT, MAY10-01, FOR, ORDERS, FROM, CONTROL, TO, PRODUCTION, %
GENTYPE, R
```

The percent sign (%) tells the user to put the input command to PAC over two lines.

The above example creates a migration event MAY10-01 for the application ORDERS to be migrated from the status CONTROL to the status PRODUCTION with the resulting object list:

```
ORD-COPY,C,0002
ORD-CUST,N,0001
ORD-END,N,0003
ORD-GLOB,G,0003
ORD-MAP,M,0003
ORD-MAIN,P,0001
```

GENTYPE Option S : Predict Set Generate

With GENTYPE S, the object list is built from a Predict set identified by user ID (SETUID), set number (SETNUM), and file number (SETLOC).

```
,SETUID, prdset-userID
,SETNUM, prdset-number
,SETLOC,REMOTE/LOCAL
```

SETLOC is the location of Predict cross-reference data. For objects from the Control status, the location is always local (that is, the set is stored within PAC). Otherwise, the set location is always remote (that is, the set is stored in the Predict file specified by the application status link).

AUTHORIZE EVENT Batch Command

Note:

The migration event must be in a Pending or Validated state. The authorization request will take a Pending event through the Validated state automatically.

The AUTHORIZE EVENT direct command may be used to authorize migration events in batch.

The syntax for the direct command is as follows:

```
AUTHORIZE, EVENT, event-name

,JOB, job-name
,EXPAND,{C | E | R | U | N}
,{COPY | MOVE | INCLUDE}
,REPLACE;{Y | N}
,APPLYMODS, applymod-number(s)
,FTT, ftt-name
,EXPAND-STATUS, status-name
,WORKFILE,{Y | N}
,{BATCH | ONLINE}
```

AUTHORIZE EVENT Batch Command Example:

```
LOGON SYSPAC
MENU
AUTHORIZE, EVENT, ord dc 02, JOB, natural migrate workfile, EXPAND, C
AUTHORIZE, EVENT, ord dc 03, MOVE, REPLACE, Y, APPLYMODS, 4, 5
```

BACKOUT EVENT Batch Command

The BACKOUT EVENT direct command may be used to back out a migration event in batch.

The syntax for the direct command is as follows:

```
BACKOUT,EVENT, event-name
```

BACKOUT EVENT Batch Command Example:

```
//@USER JOB @ACCOUNT,CLASS=A,MSGLCASSS=X,REGION=2M
//BACKOUT EXEC PACBATCH
//CMSYNIN DD *
LOGON SYSPAC
MENU
BACKOUT,EVENT,ord_dc_02
FIN
/*
```

COPY Command

COPY ENTITY-TYPE1 entity-name1a [TO] entity-name1b

Valid entity-types for the COPY command include the following:

entity-type 1

EVENT

JOB

KEYWORD

REQUEST

The COPY command requires a TO-clause, which consists of just an entity-name, with or without the TO operator. The corresponding entity type is always entity-type1.

Examples:

```
COPY EVENT ord-dc-01 TO ord-dc-02
COPY JOB os-export-jcl new-export-jcl
COPY KEYWORD project1 TO project2
COPY REQUEST fix-01 fix-02
```

Command Reference DISPLAY Command

DISPLAY Command

Note:

Refer to the following section for information about the DISPLAY OBJECT command.

DISPLAY ENTITY-TYPE1 entity-name1 [[FOR][ENTITY-TYPE2] entity-name2]

Valid entity-types for the DISPLAY command include the following:

entity-type1 entity-type2 APPLICATION STATUS EVENT JOB KEYWORD REQUEST STATUS APPLICATION

The following syntax is used to display an application linked to a status:

```
DISPLAY APPLICATION application-name [FOR][STATUS]status-name
```

The following syntax is used to display a status linked to an application:

```
DISPLAY STATUS status-name [FOR ][APPLICATION]application-name
```

The remaining valid values for entity-type1 are not used with a FOR-clause.

Examples:

```
DISPLAY APPLICATION ord-exam
DISPLAY APPLICATION ord-exam FOR STATUS user-test
DISPLAY APPLICATION ord-exam STATUS user-test
DISPLAY APPLICATION ord-exam user-test

DISPLAY EVENT ord-dc-01
DISPLAY JOB os-export-jcl
DISPLAY KEYWORD project1
DISPLAY REQUEST fix-01

DISPLAY STATUS user-test
DISPLAY STATUS user-test FOR APPLICATION ord-exam
DISPLAY STATUS user-test APPLICATION ord-exam
DISPLAY STATUS user-test ord-exam
```

DISPLAY OBJECT Command

```
DISPLAY OBJECT object-name version status [[FOR][APPLICATION] application-name
```

The only valid entity-types for this particular DISPLAY command are as follows:

entity-type1 entity-type2 OBJECT APPLICATION

Note that a specific version of the object may be specified for display. You may also, or alternatively, specify the status for which you want the object version(s) displayed.

Examples:

```
DISPLAY OBJECT ord-exam
DISPLAY OBJECT ord-main 0001
DISPLAY OBJECT ord-main user-test
DISPLAY OBJECT ord-main 0001 user-test

DISPLAY OBJECT ord-main FOR APPLICATION ord-exam
DISPLAY OBJECT ord-main APPLICATION ord-exam
DISPLAY OBJECT ord-main ord-exam

DISPLAY OBJECT ord-main 0001 FOR APPLICATION ord-exam
DISPLAY OBJECT ord-main 0001 APPLICATION ord-exam
DISPLAY OBJECT ord-main 0001 ord-exam
DISPLAY OBJECT ord-main user-test FOR APPLICATION ord-exam
DISPLAY OBJECT ord-main user-test APPLICATION ord-exam
DISPLAY OBJECT ord-main user-test APPLICATION ord-exam
DISPLAY OBJECT ord-main user-test ord-exam
```

DISPLAY OBJECT LAST Command

You may display the most current version of an object, or the next to most current version of a specified object:

```
DISPLAY OBJECT obj-name LAST - n version status [[FOR][APPLICATION] application-name
```

where - n is the most current version minus the number of versions.

Examples:

```
DISPLAY OBJECT ord-main LAST APPLICATION ord-exam
DISPLAY OBJECT ord-main LAST - 1 APPLICATION ord-exam
```

GENLIST EVENT Batch Command

You may use the GENLIST EVENT batch command to create the object list for an existing migration event. If an object list already exists for the event, it will be replaced.

The syntax for the GENLIST EVENT command is as follows:

Command Reference LINK Command

GENLIST, EVENT, event-name GENTYPE, C|I|M|P|R|S|W

,MREQ, maintenance-request ,ARCEVENT, archive-event-name ,SET identifiers required for GENTYPE C or S ,WITH clause optional for GENTYPE P

The values for the optional keywords are described in the following table:

Keyword Description

GENTYPE one-character code (C, I, M, P, R, S, W) for the type of object list to be generated. Refer to the

GENTYPE Option sections associated with the ADD EVENT command. In addition, the GENLIST command provides the GENTYPE "W" (Write to Output File) option. Use this code to write the object list of an existing event to an external output file (Work File 1 is required and must

be a minimum length of 72 bytes per record).

Note: You must specify a GENTYPE option to generate the object list.

MREQ name of the maintenance request associated with the migration event (if applicable).

ARCEVENT used if you are restoring archived objects to PAC. ARCEVENT is the name of the archive event

that initially archived the objects.

Example:

LOGON SYSPAC MENU

GENLIST, EVENT, batch-add-d-ut, GENTYPE, R

LINK Command

LINK ENTITY-TYPE1 entity-name1 [TO] [ENTITY-TYPE2] entity-name2

The LINK command is used to link applications and statuses. Valid entity-types for the LINK command include the following:

entity-type1 entity-type2

APPLICATION STATUS

STATUS APPLICATION

At least the entity-name argument of the TO-clause is required.

The following syntax is used to link an application to a status:

LINK APPLICATION application-name [TO][STATUS]status-name

The following syntax is used to link a status to an application:

MODIFY Command Command Reference

LINK STATUS status-name [TO][APPLICATION]application-name

Examples:

```
LINK APPLICATION ord-exam TO STATUS user-test
LINK APPLICATION ord-exam STATUS user-test
LINK APPLICATION ord-exam user-test
LINK STATUS user-test TO APPLICATION ord-exam
LINK STATUS user-test APPLICATION ord-exam
LINK STATUS user-test ord-exam
```

MODIFY Command

MODIFY ENTITY-TYPE1 entity-name1 [[FOR] [ENTITY-TYPE2] entity-name2]

Valid entity-types for the MODIFY command include the following:

entity-type1 entity-type2

APPLICATION STATUS

EVENT -

JOB -

KEYWORD

REQUEST

STATUS APPLICATION

The following syntax is used to modify an application linked to a status:

```
MODIFY APPLICATION application-name [FOR ][STATUS]status-name
```

The following syntax is used to modify a status linked to an application:

```
MODIFY STATUS status-name [FOR ][APPLICATION]application-name
```

The remaining valid values for entity-type1 are not used with a FOR-clause.

Examples:

```
MODIFY APPLICATION ord-exam
MODIFY APPLICATION ord-exam FOR STATUS user-test
MODIFY APPLICATION ord-exam STATUS user-test
MODIFY APPLICATION ord-exam user-test

MODIFY EVENT ord-dc-01
MODIFY JOB os-export-jcl
MODIFY KEYWORD project1
MODIFY REQUEST fix-01

MODIFY STATUS user-test
MODIFY STATUS user-test FOR APPLICATION ord-exam
MODIFY STATUS user-test APPLICATION ord-exam
MODIFY STATUS user-test ord-exam
```

Command Reference PURGE Command

PURGE Command

PURGE ENTITY-TYPE1 entity-name1 [[FOR] [ENTITY-TYPE2] entity-name2]

Valid entity-types for the PURGE command include the following:

entity-type1 entity-type2 APPLICATION STATUS EVENT JOB KEYWORD REQUEST STATUS APPLICATION

The following syntax is used to purge an application linked to a status:

```
PURGE APPLICATION application-name [FOR ][STATUS]status-name
```

The following syntax is used to purge a status linked to an application:

```
PURGE STATUS status-name [FOR ][APPLICATION]application-name
```

The remaining valid values for entity-type1 are not used with a FOR-clause.

Examples:

```
PURGE APPLICATION ord-exam
PURGE APPLICATION ord-exam FOR STATUS user-test
PURGE APPLICATION ord-exam STATUS user-test
PURGE APPLICATION ord-exam user-test

PURGE EVENT ord-dc-01
PURGE JOB os-export-jcl
PURGE KEYWORD project1
PURGE REQUEST fix-01

PURGE STATUS user-test
PURGE STATUS user-test FOR APPLICATION ord-exam
PURGE STATUS user-test APPLICATION ord-exam
PURGE STATUS user-test ord-exam
```

RELEASE EVENT Command

The RELEASE EVENT direct command may be used to back out a migration event in batch.

This command performs the same functionality as the BACKOUT command. It is intended to remove the BACKOUT command in a future release of the product.

The syntax for the direct command is as follows:

RENAME Command Command Command Reference

RELEASE, EVENT, event-name

RELEASE EVENT Batch Command Example:

```
//@USER JOB @ACCOUNT,CLASS=A,MSGLCASSS=X,REGION=2M
//RELEASE EXEC PACBATCH
//CMSYNIN DD *
LOGON SYSPAC
MENU
RELEASE,EVENT,ord_dc_02
FIN
//
```

RENAME Command

RENAME ENTITY-TYPE1 entity-name1a [TO] entity-name1b

Valid entity-types for the RENAME command include the following:

Valid entity-types for the COPY command include the following:

entity-type1

JOB

KEYWORD

The RENAME command requires a TO-clause, which consists of just an entity-name, with or without the TO operator. The corresponding entity type is always entity-type1.

Examples:

```
RENAME JOB os-export-jcl new-export-jcl RENAME KEYWORD project1 TO project2
```

RESET EVENT Command

The RESET EVENT direct command may be used to back out a migration event in batch.

This command does what the online RESET command does. When a migration event is reset, the following occurs:

- The step number of the event is reset to 1.
- The audit report is deleted.

The syntax for the direct command is as follows:

RESET, EVENT, event-name

Command Reference SELECT Command

RESET EVENT Batch Command Example:

```
//@USER    JOB @ACCOUNT,CLASS=A,MSGLCASSS=X,REGION=2M
//RESET EXEC PACBATCH
//CMSYNIN DD *
LOGON SYSPAC
MENU
RESET,EVENT,ord_dc_02
FIN
/*
```

SELECT Command

SELECT ENTITY-TYPE1 entity-name1 [[FOR] [ENTITY-TYPE2] entity-name2]

Valid entity-types for the SELECT command include the following:

entity-type1 entity-type2 APPLICATION STATUS EVENT JOB KEYWORD REQUEST -

STATUS APPLICATION

The following syntax is used to select an application linked to a status:

```
SELECT APPLICATION application-name [FOR ][STATUS ]status-name
```

The following syntax is used to select a status linked to an application:

```
SELECT STATUS status-name [FOR ][APPLICATION ]application-name
```

The remaining valid values for entity-type1 are not used with a FOR-clause.

Examples:

```
SELECT APPLICATION ord-exam

SELECT APPLICATION ord-exam FOR STATUS user-test

SELECT APPLICATION ord-exam STATUS user-test

SELECT APPLICATION ord-exam user-test

SELECT EVENT ord-dc-01

SELECT JOB os-export-jcl

SELECT KEYWORD project1

SELECT REQUEST fix-01

SELECT STATUS user-test

SELECT STATUS user-test FOR APPLICATION ord-exam

SELECT STATUS user-test APPLICATION ord-exam

SELECT STATUS user-test ord-exam
```

SUBMIT EVENT Batch Command Command Command Reference

SUBMIT EVENT Batch Command

The SUBMIT EVENT direct command may be used to submit a migration event in batch only in the OS/390 environment. If you are using Natural 2.1, you must copy the module NATRJET from the Natural 2.1 distribution load library into a library in your current steplib concatenation as module NATRJE.

The syntax for the SUBMIT EVENT command is as follows:

```
SUBMIT, EVENT, event-name
```

Note the following when submitting a migration in batch using direct commands:

- You may submit a migration event in batch using direct commands only in the OS/390 environment.
- The migration event must be in an Authorized or Started state.
- If you are using Natural 2.1, you must copy the module NATRJET from the Natural 2.1 distribution load library into a library in your current steplib concatenation as module NATRJE.
- A group event may be resubmitted in order to submit the next member event.

Example

```
//@USER JOB @ACCOUNT,CLASS=A,MSGLCASSS=X,REGION=2M
//SUBMIT EXEC PACBATCH
//CMSYNIN DD *
LOGON SYSPAC
MENU
SUBMIT,EVENT,ord_dc_02
FIN
/*
```

UNDO EVENT Command

The UNDO EVENT direct command may be used to back out a migration event in batch.

This command is applicable to emigrations to test or production and to retirements from test or production, provided the events have reached stage 6 and have not been unlocked.

The syntax for the direct command is as follows:

```
UNDO,EVENT, event-name
```

UNDO EVENT Batch Command Example:

```
//@USER    JOB @ACCOUNT,CLASS=A,MSGLCASSS=X,REGION=2M
//UNDO    EXEC PACBATCH
//CMSYNIN    DD *
LOGON SYSPAC
MENU
UNDO ,EVENT,ord_dc_02
FIN
/*
```

Command Reference Other SYSPAC Commands

Other SYSPAC Commands

This sectioncovers the following topics:

- ADMIN Command N and P
- DEACTIVATE Command P
- MENU Command N and P
- PACADJST Command N
- REFRESH Command P
- SYSPAC Command N
- SYSPACA Command N
- UNLOCK Command P
- Profile Command N

Note:

In the following paragraphs, N represents a Natural command; P represents a PAC command. ADMIN and MENU are both Natural and PAC commands.

ADMIN Command - N and P

Entered from the SYSPAC library screen. ADMIN provides access to the PAC administrator functions if the user is authorized for those functions.

DEACTIVATE Command - P

The DEACTIVATE command is used when you are displaying a specific object version and you need to deactivate and remove a Natural object from the PCF system file. Only the PAC administrator may use the DEACTIVATE command.

MENU Command - N and P

Entered from the Logon Accepted screen to access the PAC Main Menu.

PACADJST Command - N

The PACADJST command is entered from the SYSPACA library screen to invoke the File Adjust Function used to renumber PAC files without losing the integrity of the PAC system.

REFRESH Command - P

The REFRESH direct command is valid for completed and backed-out events. It refreshes the current event to Pending state. The following information is removed from the refreshed event:

- Audit Report
- Authorization information

- Job information
- Schedule date

A refreshed event can be reused. PAC returns the message "PAC7337: (A) Migration event has been refreshed".

The REFRESH command may be used only on the Display Migration Event screen.

SYSPAC Command - N

Entered at the NEXT prompt on the Natural system library screen to access the PAC system. SYSPAC may alternatively be preceded by LOGON:

LOGON SYSPAC

SYSPACA Command - N

Entered at the NEXT prompt on the Natural system library screen. The only object in SYSPACA is the menu object that logs the user on to SYSPAC and executes ADMIN. The SYSPACA object is provided for security reasons. ADMIN monitors whether the user is authorized to use SYSPACA.

UNLOCK Command - P

The UNLOCK command invokes a screen for unlocking PAC data that was locked by a user or by a user's batch user ID. This is a PAC administrator function.

Profile Command - N

The Natural Editor PROFILE command is available from the PAC command line. This enables you to utilize the majority of the editor profile functionality. Please refer to the Natural user documentation for more information.

Commands to Set SYSPAC Options - P

Direct commands may be issued to SYSPAC or to Natural using the character string "//" as a prefix. These commands may be entered on the command line and issued from most PAC screens.

The following table lists and describes the special commands that may be issued to SYSPAC to set ON/OFF SYSPAC options and parameters:

Command	Explanation
FIXES	Lists the fixes that have been applied to PAC; the fixes are distributed in the form of INPL updates.
SET ON TRACK / SET OFF TRACK	Switches PAC tracing utility on / off.

Natural Program Editor Commands

The Natural program editor is used to edit various Natural objects.

This sectioncovers the following topics:

Command Reference Positioning Commands

- Positioning Commands
- Edit Commands
- Line Commands

Positioning Commands

Position . . . +P, -P forwards or backwards one page. +, - forwards or backwards one page. +H, -H forwards or backwards half a page. T, -- to top of program. B, ++ to bottom of program. +nnnn forwards "nnnn" lines (maximum 4 digits). -nnnn backward "nnnn" lines (maximum 4 digits). nnnn to line "nnnn".

to the page containing the line marked with "X" or "Y".

Edit Commands

X, Y

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Edit Commands Command Reference

Command	Description
ADD [(n)]	Adds "n" empty lines. If "n" is not specified, 9 lines (4 in split screen mode) will be added.
CHANGE	Scans for the value entered as "scandata" and replaces each such value with the value entered as "replacedata". The syntax for this command is: CHANGE 'scandata' replacedata' Any special character which is not valid within a Natural variable name may be used as the delimiter character with the restriction that the same character must be used within any given command.
CLEAR	Clears the edit source work area.
DX	Deletes the X-marked line.
DY	Deletes the Y-marked line.
DX-Y	Deletes the block of lines delimited by X and Y.
EX	Deletes source lines from the top of the source area to, but not including, the X-marked line.
EY	Deletes source lines from the source line following the Y-marked line to the bottom of the source area.
EX-Y	Deletes all source lines in the source area excluding the block of lines delimited by X and Y.
POINT	Causes the line in which the ".N" line command was entered to be positioned to the top of the current screen. See also the line command ".P".
RESET	Deletes the current X and Y line markers and any marker previously set with the line command ".N".
SCAN	Scans for data in the source area. SCAN (without parameter) will cause
['scanvalue']	the SCAN menu to be produced. SCAN 'scanvalue' will result in a scan for scan value. If the scan value is entered without delimiter characters, the entire character string which follows the keyword SCAN will be used as the scan value.
SCAN =	Causes a scan for the next occurrence of the scan value. The direction for a given scan command may also be explicitly specified by entering "SCAN =+" or "SCAN =-" prior to command execution. The first line which contains the scanned value is positioned to the top line after each SCAN= or SCAN+ command. Each line in which the scanned value is found will be marked with an "S".
SET ABS	"SET ABS ON" causes the SCAN and CHANGE commands to operate
[ON OFF]	in absolute mode, i.e., the value to be scanned/changed need not be delimited by blanks or special characters. "SET ABS OFF" (default) causes the SCAN and CHANGE commands to operate in non-absolute mode, i.e., the value to be scanned/changed must be delimited by blanks or special characters.
SET NUL [ON OFF]	"SET NUL ON" causes the value scanned with a SCAN command to be replaced by a null value. Default is OFF.
SHIFT [- +nn]	Shifts each source line delimited by the X and Y markers to the left or right. "nn" represents the number of characters the source line is to be shifted. Comment lines are not shifted.
SHIFT	Shifts each source line delimited by the X and Y markers to the leftmost position. Comment lines are not shifted.
SHIFT ++	Shifts each source line delimited by the X and Y markers to the rightmost position (maximum 99 positions). Comment lines are not shifted.
*	Displays the edit command most recently entered.
*=	Causes the last command entered in the command line to be executed.

Command Reference Line Commands

Line Commands

The notation "(nnnn)" indicates a repetition factor. The default repetition value is 1.

Command	Description
.C(nnnn)	Copies the line in which the command was entered.
.CX(nnnn)	Copies the X-marked line.
.CY(nnnn)	Copies the Y-marked line.
.CX-Y(nnnn)	Copies the block of lines delimited by the X and Y markers.
.D(nnnn)	Delete line(s). The default is 1 line.
.I(n)	Adds "n" empty lines. "n" may be 1-9. If "n" is not specified, 9 lines (4 in split screen mode) will be added.
.J	Joins the current line with the next line. If the resulting line length is greater than the length of the editor screen line, the line will be marked with "L" and then must be separated again using the ".S" command before it can be modified.
.L	Will undo all modifications to the line since the last time was pressed.
.MX	Moves the X-marked line.
MY	Moves the Y-marked line.
.MX-Y	Moves the block of lines delimited by the X and Y markers.
.N	Marks a line as reference for the edit command POINT.
.P	Causes the line marked by this command to be positioned to the top of the screen.
.S	Splits the line at the position marked by the cursor.
.X	Marks the beginning of a block of lines to be processed.
.Y	Marks the end of a block of lines to be processed.

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